

F-2

## Nucleotide and Predicted Translation Product for Human Hepatoma Derived Growth Factor-Like Protein (HDGF-2)

1 GAATTCGTCCTCTAGGGTGGTTGGGTGGTAAGATGGCGGCTGTGAGTCTGCGGCTCGGC  
M A A V S L R L G

61 GACTTGGTGTGGGGAAACTCGGCCGATATCCTCCTTGGCCAGGAAAGATTGTTAATCCA  
D L V W G K L G R Y P P W P G K I V N P

121 CCAAAGGACTTGAAGAAACCTCGCGGAAAGAAATGCTTCTTGTGAAATTTTTGGAACA  
P K D L K K P R G K K C F F V K F F G T

181 GAAGATCATGCGTGATCAAAGTGAACAGCTGAAGCCATATCATGCTCATAAAGAGGAA  
E D H A W I K V E Q L K P Y H A H K E E

241 ATGATAAAATTAACAAGGGTAAACGATTCCAGCAAGCGGTAGATGCTGTGCGAAGAGTTC  
M I K I N K G K R F Q Q A V D A V E E F

301 CTCAGGAGAGCCAAAGGGAAAGACCAGCGTCATCCCAATTTCTTCTGATGACAAGAA  
L R R A K G K D Q T S S H N S S D D K N

361 CGACGTAATTCAGTGAGGAGAGAAGTAGGCCAAACTCAGGTGATGAGAAGCGCAAACTT  
R R N S S E E R S R P N S G D E K R K L

421 AGCCTGTCTGAAGGGGAAGGTGAAGAAGAATGGGAGAAGGAAAGAAGAGGGTGTCTTCA  
S L S E G K V K K N M G E G K K R V S S

481 GGCTCTTCAGAGAGAGGCTCCAAATCCCCTCTGAAAAGAGCCCAAGAGCAAGTCCCCGG  
G S S E R G S K S P L K R A Q E Q S P R

541 AAGCGGGGTCGGCCCCCAAAGGATGAGAAGGATCTCACCATCCCGGAGTCTAGTACCGTG  
K R G R P P K D E K D L T I P E S S T V

601 AAGGGGATGATGGCCGACCGATGGCCGCGTTTAAATGGCAGCCAACCGCAAGCGAGCCT  
K G M M A G P M A A F K W Q P T A S E P

661 GTTAAAGATGCAGATCCTCATTTCCATCATTTCTCTGCTAAGCCAACAGAGAAGCCAGCT  
V K D A D P H F H H F L L S Q T E K P A

721 GTCTGTTACCAGGCAATCAGGAAGAAGTTGAAAATATGTGAAGACCTCCTTCTCTCAGG  
V C Y Q A I T K K L K I C E D L L L P R

781 TGAAGTGGGCAATGCAGCCAAAGATGATGCTGATCGTGAACATGGTCCAAGGGAGCTTCAT  
GGCCACTATTGCCGAGGGGCTGACCCCTGGCCCCAGGTGACAGGCCAGTCCCAGCAGACACT

841 CTTGGACATCCTCAATCAGGGACAGTTGGCCAGCATCTTCTGGACCAAGAAGTGCCAAAA  
901 TATCCTGCAAGGAAACTTTAAGCCTGATTTCTACCTGAATACATTTCAGAAGGATCTCCG  
961 CTTAGCCATTGCGCTGGGTGATGCGGTCAACCATCCGACTCCCATGGCAGCTGCAGCAAA

1021 TGAGGTGTACAAAGAGCCCAAGGCGCTGGACCAAGTCTGACCAACGATATGTCGCGCGTGT  
1081 CCGAGCCTACATACACTAAGCTGTGCACACCCCGCCTCACCCCTCCAATCCCCCTCTG  
1141 ACCCCCTCTTCTCCTCAGATGGGGTGGGGGCTGGGAGTTTCATTCTGGTACCAGCCACCT  
1201 ATCTCCATTTCTCTTTATACAGACTTTGAGACTTGCATCAGCACAGCACACAGCAGCAC  
1261 CCTTCCCTCAGGTCGGTGGGGAGGGGACAAGTGTGACAGGATTTGGCGTGTGGGAAAGC  
1321 TCTTGAGCTGGGCACTGGCCCCCGGACGAGGTGGYTGTTGTTTCACACACACACACACA  
1381 CACACACACACACACACACAGGCTCTCGCCCCAGGATAGAAGTGCCCGAGAACTG  
1441

1501 CTGCCTGGCTTTTTTCTCCGAGCTTGTCTTATCTCAAACCCCTTCCAGTCAAGGAACT  
 1561 AGAATCAGCAACGAGAGTTGGAAGCCTTCCACAGCTTCCCCAGAGCGAAGAGGCTGTA  
 1621 GTCATGTCCCCATCCCCCACTGGATTCCCTTACAAGGAGAGGCCCTTGGGCCAGATGAGCC  
 1681 AGTACAGACTCCAGACAGAGGGGCCCTTGGGGCCCTCCAACCTCAGGTGATGAGCTGAGA  
 1741 AAGATGTTTACGTCTAAGCGTCCAGTGTGACCCAGCGCTCCATAGACGCCCTTGTGAAC  
 1801 TGAAGAGAGACTGGCAGAGTCCCGAGAAGATGGGGCCCTGGCTTTCAGGGAGTGACAGCA  
 1861 AGCAGCCGGCTGACAGGTGAGCATGGAGGCCCGGCCCTCACC GGCTCGAAGCCATGCCCC  
 1921 AGATGCCACTGCCACAGCGGGCGCTCGCTCCTCCTTAGGCTGTTTTAGTATTTGGATTTG  
 1981 CATTCCTCCCTTGGGAGGGAGTCTCAGGGCCACTAGTGATGAGCCAAGAGGAGTGGGG  
 2041 GTTGGGGCGCTCCTTTCTGTTTCCGTTAGGCCACAGACTCTTACCTGGCTCTGACTTA  
 2101 CCTCGGTCCCCCTCCAGTGGTCCCACCTTCTCCACCTGCCCCGCAAGTCCCTTGCATG  
 2161 CCCACCGCTCTCCATCCTCCTCCTCTCCTCCTCCTCCTCCTCGGAGACAGTATTTCTTTC  
 2221 TGTCTGTCCCTTTGGCCCCAGTCCAGCCTGACCAACGATGAGCATTTCTTAGGCTCAGCT  
 2281 CTTGATACGGAACGAGTGTCTTCACTCCAGCCAGCATCATGGTCTTTCGGTGTCTCCCGG  
 2341 GCCCGGGTCTGTCCGGAGGGGAAGAGAACTGGGCCCTGACCTACCTGAACTGACTGGCCCT  
 2401 CCGAGGTGGGTCTGGGACATCCTAGAGGCCCTACATTTGTCTTGGATAGGGGACCGGGG  
 2461 GGGGCTTGGAAATGTTSCAAAAAAAAGTTACCCAAGGGATGTCAGTTTTTTATCCCTCT  
 2521 GCATGGGTGGATTTTCCAAAATCATAATTGCGAGAAGGAAGGCCAGCATTTACGATGCA  
 2581 ATATGTAATTATATATAGGGTGGCCACACTAGGGCGGGGTCTTCCCCCTCAGACTTT  
 2641 GGCCCTTTTACAGAGATTAGAACTGGGTTAGAGGATTGCGAGAAGACGAGTGGGGGAGGG  
 2701 CAGGGGAAGATGCCTGTCCGGTTTTTACCTAGTTTCACTTTCATTTTGAAGCATTT  
 2761 CTGTCTGAACACAAAGCCTGTTCTAGTCTGCGCGGAACACACTGGGGGTGGGGCGGGGG  
 2821 AAGATGCGGTAATGAAACCGGTTAGTCAATTTTGTCTTAATATTGTTGACAATCTGTAA  
 2881 AGTTCCTTTTTATGAATATTCTGTGTTAAGCTATTTCACCTTTCTTTTGAATCCTTCCC  
 2941 TTTTAAGGAGAAAATGTGACACTTTGTGAAAAAGCTTGTAAAGAAAGCCCTCCCTTTTTT  
 3001 CTTTAAACCTTTAAATGACAAATCTAGGTAATTAGGTTGTGAATTTTTATTTTTGCTTT  
 3061 GTTTTTAATGAACATTTGTCTTTCAGAAATAGGATTGTGTGATAATGTTTAAATGGSAAA  
 3121 ACAAACATGATTTTGTGCAATTAACAAAGCTACTGCAAGGAAAATAAACACTTCTTGG  
 3181 TAACAAAAAAAAAAAAAAAAA 3202

FIGURE 1 2/2

## Comparison of Amino Acid Sequences Between HDGF-1 and HDGF-2

	10	20	30			
HDGF-2	MAAVSLRLGDLVWGKLGYPWPWGKI VNP PKDLKKPRG					
HDGF-1	MSRSNRQKEYKCGDLVF AKMKGYPHWPARIDEMPEAAVKSTA					
	40	50	60	70	80	90
HDGF-2	KKCFFVKFFGTEDHAWIKVEQLKPYHAHKEEMIKINKGRFQQA VDAVEEFLRRAKGKDQ					
HDGF-1	NK-YQVFFFGTHETAFLGPKDLFPYEESEKFGKPNKRKGFSEGLWEIEN-----NPTVK					
	100	110	120	130	140	150
HDGF-2	TSSHNSDDKNRRNSSEERSRPN SGDEKRKLSLSEGVKKNMGEGKRVSSGSSERGSKS					
HDGF-1	ASGYQSSQKKSCVEEPEPEPEAAEGDGDKK-GNAEGSSD---EEGKLVIDEPAKEKNEKG					
	160	170	180	190	200	210
HDGF-2	PLKRAEQSPRKGRPPKDEKDLTIPE SSTVKGMMAGPMA-AFKWQPTASEPVKDADPHF					
HDGF-1	ALKRRAGDLLLEDSPKRPKEAENPEGEEKEAATLEVERPLPMEVEKNSTPSEPGSGRGPPQ					
	220	230	240	250		
HDGF-2	HHFLLSQTEKPAVCYQAITKKLKICEDLLLP					
HDGF-1	EEEEEEDEEEATKEDAEAPGIRDHESL					

FIGURE 2

1/1